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Patent
Response Under 37 CFR 1.116
Expedited Procedure
Examination Group 1724

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Robert H. Moffett

CASE NO.: CH2814 US NA

SERIAL NO.: 09/898,437

GROUP ART UNIT: 1724

FILED: 07/03/2001

EXAMINER: Peter Hruskoci

FOR: Phosphorus Reduction in Aqueous Streams

SUPPLEMENTAL AMENDMENT AFTER FINAL REJECTION

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

Responsive to the August 8, 2002 Advisory Action in which the examiner asserted that the term "silica-based" in claims 1 and 32 raises new issues, applicant resubmits the following amendments without the term in claims 1 and 32 and requests that the amendments be entered.

IN THE CLAIMS

1. (Amended) A process to remove phosphorus from an aqueous stream, which comprises phosphorus, comprising: (a) adjusting pH of the stream to a pH of at least 7 by adding a calcium-containing compound; (b) adding one or more metal ions selected from the group consisting of zinc and manganese ions to the stream wherein the metal ion is present in the range of from about 0.01 to about 10,000 ppm, based on weight of the stream; (c) adding an anionic inorganic colloid to the stream; and (d) adding an organic polymer at about 0.01 to about 10,000 ppm, based on weight of the stream, to produce a flocculated mass.

5. (Amended) A process to remove phosphorus from an aqueous stream, which comprises phosphorus, comprising (a) adjusting pH of the stream to a pH of at least 7 by adding a calcium containing compound; (b) adding one or more metal ions selected from the group consisting of zinc ions and manganese ions to the stream wherein the metal ion is present in the range of from about 0.01 to about 10,000 ppm,

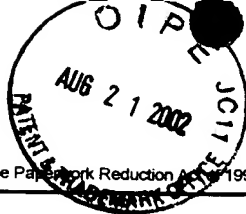
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